

SAPD/HIDTA
Information Technology Scope
For
Telephone, Internet and Communication Devices

1. EXECUTIVE OVERVIEW

The City of San Antonio has requested INX LLC, a wholly owned subsidiary of Presidio Networked Solutions, Inc. ("INX LLC or "Presidio") to provide a budgetary proposal for cabling services installation for their facility located at:

HIDTA Building

Address TBD

San Antonio, Texas

2. SCOPE OF WORK

2.1. Execution Scope of Work

Presidio will perform the following tasks:

- Presidio will install approximately one thousand seventy nine (1079) Cat 6 data runs, fiber and copper backbone, and MDF build out services. Details are as follows:

Horizontal Cable Installation

- Presidio will install one thousand seventy nine (1079) new Cat 6 data runs. The majority of the data runs will be dual runs to office/cubicle locations.
- Prior to installation, Presidio will install a j hook pathway above the drop ceiling. Per industry standards, j hooks will be placed 4'-5' apart, not to exceed 5'.
- All data runs will be routed through the drop ceiling area and secured, with Velcro, in the j hook pathway.
- Presidio will install separate j hook pathways for each law enforcement entity.
- Color coded data cabling will be utilized to distinguish each law enforcement entity's horizontal cabling.
- At each location, Presidio will route the data runs down the interior wall through existing conduit or power poles.
- Data runs will be terminated with Cat6 RJ45 inserts and secured in wall mount face plates.
- All wireless access and security data runs will be routed in separate j hook pathways.

- The wireless access and security runs will be terminated above the drop ceiling with Cat 6 RJ 45 inserts and secured in two port surface mount boxes. A 20' service loop will be supplied for each of these runs.
- At the MDF end, all data runs will be routed into the respective cabinet and terminated with Cat6 RJ 45 inserts. Data runs will be secured in 48 port modular patch panels.
- Presidio will test and label all data cabling according to COSA ITSD standards.

TIE CABLE INSTALLATION

- Presidio will install one 24 strand SM fiber optic cable, and one 100 pair copper tie cable from the 2nd floor MDF to the building Dmarc room...
- Presidio will install a separate j hook pathway to the MDF from the 1st floor transition.
- At the 1st floor Dmarc Room, the 100 pair tie cable will be terminated onto 66 blocks and secured in the yet to be determined wall location.
- In the MDF, the copper tie cable will be terminated in individual Cat5 RJ 45 inserts and secured in 48 port modular patch panels.
- In the 1st floor Dmarc Room, the fiber optic cable will be fusion spliced with 12 strand pigtails, and secured in a wall mount fiber LIU.
- In the MDF, the fiber will be fusion spliced with 12 strand pigtails and secured in a rack mount fiber LIU.

MDF BUILDOUT

Presidio will provide labor and materials to build out the new MDF as follows:

- Presidio will install fire rated, painted 4'x8'x ¾" backboard throughout the MDF.
- Presidio will provide and install a grounding busbar in the MDF. The busbar will be ground to the nearest electrical panel.
- Presidio will install a 24" ladder rack system in the MDF to provide cable routing support. Presidio will wrap the interior walls of the MDF and provide a transition ladder rack to the cabinet system described below.
- Nine TeraFrame network cabinets will be provided and installed. Cabinets will be secured together and proper cable waterfalls will be installed to aid in cable transition.
- In the cabinets, Presidio will provide and install vertical and horizontal wire management per CoSA standards.

UPS INSTALLATION

- Presidio will provide labor to install CoSA provide UPS power supplies in the CoSA data cabinets.

ACCESS CONTROL CABLING

- Presidio will provide and rough in access control cabling to TBD locations in the building.
- Presidio is not responsible for termination and configuration of access control system.

ADDITIONAL SERVICES

- Upon completion of the data cabling installation, Presidio will provide and install MDF and user end copper patch cords.
- Presidio will provide SM fiber patch cables for fiber optic services connection.
- If provided, Presidio will install wireless access points in designated locations.

Labeling

- All labels will be adhesive P-Touch or laser-type labels (white backing with black letters).
- Each cable will be assigned its own ID number or name according to Wing IDF. All patch panels, if installed, will in turn have matching circuit ID numbers on each end. The ID numbers will be provided by COSA.

Testing and Certification

- All circuits will be tested and certified to meet industry standard requirements for the media installed. These requirements include, but are not limited to:
 1. Wire map
 2. Impedance
 3. Length
 4. Resistance
 5. Attenuation
 6. Crosstalk
 7. Opens, shorts, grounds, and pair reversal

2.2. Change Management Process

Any change request will be considered an addendum to this proposal and will be performed accordingly.

3. ASSUMPTIONS

The following project assumptions are made and will be verified as part of the Systems Engineering & Planning scope of work:

1. Presidio understands that several visits to the site may be necessary to complete the work, so it is important that Presidio discuss the COSA's schedule as soon as Presidio agrees to start this work.
2. Notification of changes to the COSA's schedule needs to be communicated to Presidio's Project Manager in writing within 24 hours of the change and Presidio will reschedule all required resources on a best effort basis once notified of the schedule changes. Notification may be made via email or facsimile to the COSA's Project Manager or to the Presidio point of contact for this project. The change order process is not complete and no change will become effective until COSA issues a POCN to vendor.
3. COSA will ensure that the work environment is 100% free of hazardous materials and 100% free of asbestos. COSA will certify that project manager will notify Presidio of any and all known safety issues and/or hazardous material statements to all Presidio and third-party employees working at the site(s).
4. COSA shall inform the COSA's employees of Presidio's activities and direct them to provide necessary access and cooperation.
5. Presidio will schedule resources upon receipt and acceptance of the COSA's Project managements order. This scheduling effort will take into account the COSA's schedule and the availability of consultant(s).
6. Presidio is responsible for receiving all Presidio materials.
7. All electrical will be installed by others unless specified under the heading "Presidio will perform the following".
8. All power poles will be installed by others unless specified under the heading "Presidio will perform the following".
9. All material supplied by Presidio that is unused at the completion of the project must be returned, including scrap wire.
10. Presidio will furnish as-built drawings showing the final routes of all Presidio installed fiber optics, cables, and grounds or bonds if a set of prints for the areas that work will be done is supplied to Presidio technicians upon arrival on site.

4. BILL OF MATERIALS

Presidio is a proposed bill of materials, of the CoSA related cabling, based on current design requirements. Bill of materials is subject to change dependent on additional information provided.

MATERIAL		MANUF		
DESCRIPTION	MANUF	PART#	QTY	U/M
CAT 6 - DATA	GENERAL	7131842	112	BX
CAT 6 - SECURITY	GENERAL	7131844	9	BX
CAT 6 - WIRELESS)	GENERAL	7131841	8	BX
CAT 6 - AV	GENERAL	713184	4	BX
CAT 6 RJ45 INSERTS	PANDUIT	CJ688TGBL	704	EA
CAT 6 RJ45 INSERTS	PANDUIT	CJ688TGEI	704	EA
CAT 6 RJ45 INSERTS	PANDUIT	CJ688TGIW	90	EA
CAT 6 RJ45 INSERTS	PANDUIT	CJ688TGRD	56	EA
CAT 6 RJ45 INSERTS	PANDUIT	CJ6888TGV	20	EA
2 PORT SURFACE MOUNT BOX	PANDUIT	CBXJ2HW-A	100	EA
SLOPED FACEPLATE FRAME	PANDUIT	CBEEIY	200	EA
1/2 SLOPED INSERT	PANDUIT	CHS2EIY	200	EA
1/2 BLANK INSERTS	PANDUIT	CHB2EIY	200	EA
FURNITURE FACE PLATE	PANDUIT	CFFP4BL	125	EA
PATCH PANEL (VOICE)	PANDUIT	VP24382TV25Y	2	EA
PATCH PANEL	PANDUIT	CPPA48HDEWBL	30	EA
TERAFRAME CABINET	CPI	FF-2K-213A-C23	2	ea.
TERAFRAME CABINET	CPI	FF-2K-213A-C20	4	EA
CABINET BAYING KIT	PANDUIT	35078-001	10	EA
VERTICAL MANAGER	CPI	34441-C02	18	EA
HORIZONTAL MANAGER	PANDUIT	NM2	5	EA
HORIZONTAL MANAGER	PANDUIT	NM3	14	EA
LADDER RACK	CPI	10250-724	14	EA
WALL ANGLE BRACKET	CPI	11421-724	8	EA
MOUNTING PLATES	CPI	10595-724	2	EA
JUNCTION SPLICES	CPI	11302-701	4	EA
BUTT SPLICE	CPI	11301-701	4	EA
RADIUS DROP	CPI	12100-712	48	EA
PROTECTIVE CAP	CPI	10642-001	2	FT
BUS BAR	CPI	40153-020	1	EA
BUS BAR	CPI	13622-010	1	EA
#6 AWG	WIRE	THHN-6-STR-GRN-CUTREEL	200	FT
3/0 AWG	WIRE	THHN-3/0-STR-GRN-CUTREEL	200	FT
COMPRESSION LUGS	CPI	40162-901	40	EA
PLYWOOD - B/C GRADE 3/4"		ALLEN & ALLEN	14	EA

MATERIAL		MANUF		
DESCRIPTION	MANUF	PART#	QTY	U/M
J-HOOKS	CADDY	CAT 32	800	EA
SUPPORT BRACKET	CADDY	CATHBA	800	EA
BEAM CLAMPS	CADDY	BC	800	EA
J-HOOKS	CADDY	CAT 12	800	EA
J-HOOKS	CADDY	CAT 64	60	EA
FIBER ENCLOSURE	PANDUIT	FRME2U	2	EA
FIBER ADAPTER PLATE	PANDUIT	FAP6WBUDLCZ	4	EA
12 STRAND SM PIGTAIL	PANDUIT		4	EA
BLANKS	PANDUIT	FAPB	8	FT
24 STRAND ARMORED	PANDUIT	FSP924Y	300	FT
100 PAIR CAT 3	GENERAL		1000	FT
5' PATCH CORD	PANDUIT	UTP28SP5YL	100	EA
7' PATCH CORD	PANDUIT	UTP28SP7YL	300	EA
10' PATCH CORD	PANDUIT	UTP28SP10YL	300	EA
14' PATCH CORD	PANDUIT	UTP28SP14YL	100	EA
14' PATCH CORD	PANDUIT	UTP28SP14RD	30	EA
14' PATCH CORD	PANDUIT	UTP28SP14IW	50	EA
10' PATCH CORD	PANDUIT	UTPS5RDY	30	EA
10' PATCH CORD	PANDUIT	UTPS5IWY	50	EA
14' PATCH CORD	PANDUIT	UTPS14BLY	720	EA
1M LC-LC	PANDUIT	F9E10-10M1Y	12	EA
2" SLEEVES	STI	FS200	50	EA
4" SLEEVES	STI	FS400	10	EA
FIRESTOP	STI	SSP100	32	EA
75 FT VELCRO ROLL	PANDUIT	151494	40	EA
COMPOSITE ACCESS CONTROL CABLE	TAPPAN	H91799.1	4000	EA

Title: COSA - HIDTA 5

To: Bart Mulcahy
City of San Antonio
General Accounting
PO Box 839976
SAN ANTONIO, TX 78283-3976

From: Sebastian Test
Network Alliance, LLC
454 Soledad St.
Suite R100
San Antonio, Texas 78205

Phone: (210) 207-7906

Email: bart.mulcahy@sanantonio.gov

Phone: 210.364-6575

Fax: 210.579-2895

Email: stest@network-alliance.net
Account Manager:

#	Part #	Description	Qty	List Price	Price	Ext Price
1	WS-C4500X-16SFP+	Catalyst 4500-X 16 Port 10G IP Base, Front-to-Back, No P/S	2	\$0.00	\$0.00	\$0.00
2	CON-SNT-WSC16SFX	SMARTNET 8X5XNBD Catalyst 4500-X 16 Port 10G IP Base, Fro	2			
3	SFP-H10GB-CU1M	10GBASE-CU SFP+ Cable 1 Meter	for 12 mo(s) 8			
4	C4KX-PWR-750AC-R	Catalyst 4500X 750W AC front to back cooling power supply	2			
5	C4KX-PWR-750AC-R/2	Catalyst 4500X 750W AC front to back cooling 2nd PWR supply	2			
6	CAB-C15-CBN	Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15 Connectors	4			
7	S45XUK9-34-1512SG	CAT4500-X Universal Crypto Image	2			
8	C4500X-16P-IP-ES	IP Base to Ent. Services license for 16 Port Catalyst 4500-X	2			
9	C4KX-NM-8SFP+	Catalyst 4500X 8 Port 10G Network Module	2			
10	GLC-T	1000BASE-T SFP	4			
11	SFP-10G-LR	10GBASE-LR SFP Module	24			
12	WS-C3750X-48PF-S	Catalyst 3750X 48 Port Full PoE IP Base	10			
13	CON-SNT-3750X4FS	SMARTNET 8X5XNBD Catalyst 3750X 48 Port Full PoE IP Base	10			
14	CAB-C15-CBN	Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15 Connectors	for 12 mo(s) 20			
15	C3KX-PWR-1100WAC/2	Catalyst 3K-X 1100W AC Secondary Power Supply	10			
16	S375XVK9T-12258SE	CAT 3750X IOS UNIVERSAL WITH WEB BASE DEV MGR	10			
17	C3KX-NM-10G	Catalyst 3K-X 10G Network Module option PID	10			
18	CAB-STACK-50CM	Cisco StackWise 50CM Stacking Cable	10			
19	CAB-SPWR-30CM	Catalyst 3750X Stack Power Cable 30 CM	10			
20	C3KX-PWR-1100WAC	Catalyst 3K-X 1100W AC Power Supply	10			
21	PI-MSE-PRMO-INSRT	Insert, Packout - PI-MSE	10			
22	WS-C3750X-48PF-S	Catalyst 3750X 48 Port Full PoE IP Base	8			

23	CON-SNTP-3750X4FS	SMARTNET 24X7X4 Catalyst 3750X 48 Port Full PoE IP Base	8 for 12 mo(s)
24	PI-MSE-PRMO-INSRT	Insert, Packout - PI-MSE	8
25	CAB-C15-CBN	Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15 Connectors	8
26	S375XVK9T-12258SE	CAT 3750X IOS UNIVERSAL WITH WEB BASE DEV MGR	8
27	CAB-STACK-50CM	Cisco StackWise 50CM Stacking Cable	8
28	CAB-SPWR-30CM	Catalyst 3750X Stack Power Cable 30 CM	8
29	C3KX-NM-BLANK	Catalyst 3K-X Network Module Blank	8
30	C3KX-PS-BLANK	Catalyst 3K-X Power Supply Blank	8
31	C3KX-PWR-1100WAC	Catalyst 3K-X 1100W AC Power Supply	8
32	ISR4451-X-SEC/K9	Cisco ISR 4451 Sec bundle??w/SEC license	1
33	CON-SNT-ISX451-X	SMARTNET 8X5XNBD Cisco ISR 4451 Sec b	1 for 12 mo(s)
34	MEM-FLASH-8U16G	8G to 16G Flash Memory Upgrade for Cisco ISR 4400	1
35	PWR-4450-AC	450W AC Power Supply??for Cisco ISR 4450	1
36	PWR-4450-AC/2	450W AC Power Supply (Secondary PS)??for Cisco ISR 4450	1
37	CAB-C13-C14-2M	Power Cord Jumper, C13-C14 Connectors, 2 Meter Length	2
38	MEM-4400-DP-2G	2G DRAM (1 DIMM) for Cisco ISR 4400 Data Plane	1
39	SL-44-IPB-K9	IP Base License for Cisco ISR 4400 Series	1
40	NIM-BLANK	Blank faceplate for NIM slot on Cisco ISR 4400	3
41	POE-COVER-4450	Cover for empty POE slot on Cisco ISR 4450	2
42	SL-44-SEC-K9	Security License for Cisco ISR 4400 Series	1
43	SM-S-BLANK	Removable faceplate for SM slot on Cisco 2900,3900,4400 ISR	2
44	SISR4400UK9-310S	Cisco ISR 4451-X IOS XE UNIVERSAL	1
45	FL-44-HSEC-K9	U.S. Export Restriction Compliance license for 4400 series	1
46	FL-44-PERF-K9	Performance on Demand License for 4400 Series	1
47	MEM-4400-4GU8G	4G to 8G DRAM Upgrade (4G+4G) for Cisco ISR 4400	1
48	PS-SVC-FF	Fixed Fee for Network Alliance employee labor Network Engineer. See SOW for	1
49	PS-SVC-FF	Fixed Fee for Network Alliance employee labor Project Manager.	1

Sub Total:

Texas DIR-SDD-1386 CISCO Networking Equip, Product, Services and Tele Network Services

Grand Total:

THIS PROPOSAL IS GOVERNED BY THE TERMS AND CONDITIONS SET FORTH IN DIR CONTRACT NUMBER LISTED ABOVE

Customer hereby authorizes and agrees to make timely payment for products delivered and services rendered, including payments for partial shipments



1922 WAUKESHA DRIVE
PFLUGERVILLE TX 78660-2033
Phone: 512-421-2300
Fax: 800-450-1769

To: SAN ANTONIO CITY OF
ACCOUNTS PAYABLE DEPT~COMDATA ACCT
515 S. FRIO ST.
SAN ANTONIO TX 78207-5009
Attn: Mike Mitchell
Phone: 210-207-4006
Fax: 210-207-4040
Email: joe.lopez@graybar.com

Date: 02/03/2014
Proj Name: UPS
GB Quote #: 219516750
Valid From: 02/03/2014
Valid To: 03/05/2014
Contact: JOSEPH LOPEZ
Email: joe.lopez@graybar.com

Proposal

We Appreciate Your Request and Take Pleasure in Responding As Follows

Item	Quantity	Supplier	Catalog Nbr	Description	Price	Unit	Ext.Price
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Notes: U.S. Communities Telecommunications/Security# MA-IS-1040222-1

This is a suggested bill of materials based on information provided to GraybaR as well as any necessary assumptions. Customer is responsible for insuring the bill of materials is correct and meets the project specifications.

This quote contains custom products, which may not be returned. "Custom" products are defined as those with specific customer identification marks, ordered for special projects, not considered resalable in the general market place, or items not commonly stocked by Graybar.

100	12 EA	SCHNEIDER ELEC IT	SMT3000RMT2U	SMART UPS 3000VA RM 2U LCD 208V
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GB Part #: 25415886 UPC #: 73130427955

Item Note: 4-5 business day lead time

200	12 EA	SCHNEIDER ELEC IT	AP9566	RACK PDU BASIC 1U 16A 208V
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GB Part #: 25265199 UPC #:

Item Note: 4-5 business day lead time

300	12 EA	SCHNEIDER ELEC IT	AP9630	UPS NETWORK MANAGEMENT CARD 2
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GB Part #: 25245363 UPC #: 73130426741

Item Note: 1-2 business day lead time

This equipment and associated installation charges may be financed for a low monthly payment through Graybar Financial Services (subject to credit approval). For more information call 1-800-241-7408 to speak with a leasing specialist.

To learn more about Graybar, visit our website at www.graybar.com

24-Hour Emergency Phone#: 1-800-GRAYBAR

Subject to the standard terms and conditions set forth in this document. Unless otherwise noted, freight terms are F.O.B. shipping point prepaid and bill.

Unless noted the estimated ship date will be determined at the time of order placement.

SAPD/HIDTA
Low Voltage Scope
For
Door Access Controls, Security Cameras
and other Devices

Systems Overview

This proposal includes the installation access control to (19) doors at the facility and (3) gates. This will be tied into the city's existing Hirsch Velocity application. We will also install (18) IP video cameras that will be configured on a city provided VMS Server and tied back to the city's genetec Video management system.

SCOPE OF WORK

Access Control System

1. Head End Equipment – Description of core security control equipment required

- a. Intertech Security will program and configure new access control hardware using the clients existing access control management software.
- b. Intertech Security shall program all system & door set up information.
- c. Intertech Security will furnish and install System Controller, all Reader Interfaces, and all associated enclosures, power supplies, battery backup, etc, as required to provide with a fully operational Access Control System.
- d. Access control panels will be located in the following protected locations:
 - 1st floor IDF
 - 2nd floor IDF

2. Field Devices – Description of security protection devices required

- a. Intertech Security will provide and install the security protection devices as per the drawings provided to us.
- b. Intertech Security will supply all electronic door hardware, electronic hinges, and EPTs.
- c. Intertech Security to provide and install all electronic panic devices and related power supplies.
- d. All door and frame preparations to accept the components for the access control system shall be performed by others prior to installation.
- e. All electrified automatic door operators and associated equipment and power supplies will be furnished and installed by others. Electronic / signal interconnections between the access control system and the automatic door operators will be performed by the supplier or installer of the door equipment.

3. Communications/Connectivity – Description of required communications

- a. Communication between the access control panels and the access control management software shall be IP based and communicate over the customer's existing network infrastructure.
- b. Dedicated IP address with jack located next to or inside the intelligent controller to be provided by customer.
- c. The customer shall also be responsible for ensuring that an open network communications path (across switch ports / subnets / VLANs / firewalls, etc.) be established and maintained between the access control server and intelligent controllers.
- d. Any required Wide Area Network Connectivity (either private, or Internet based) will be provided by the customer.

SCOPE OF WORK
Video System

1. Head End Equipment – Description of core security control equipment required

- a. Intertech Security will install an IP video server furnished by the customer and Intertech Security will install Genetec VMS software to manage 27 cameras.
- b. The online recording storage for the digital recording system will vary according to the number of cameras connected, the frame rate selected for each camera, the resolution/quality/compression selected for each camera, and the amount of recorded video which can be based on event recording (or motion detection)
- c. The VMS server will be mounted in a rack provided by Owner.
- d. Intertech Security shall program camera and digital video set up information.

2. Field Devices – Description of security protection devices required

- a. Intertech Security will furnish and install fixed interior cameras and P/T/Z cameras as indicated on drawing provided by customer
- b. The proposed video system assumes there is adequate and constant lighting available at each camera location. Should the existing lighting conditions not be sufficient to provide for video recording or display, the Owner shall provide additional lighting or make modifications to the site environment to improve the site's lighting conditions as required.
- c. Cameras shall be mounted on secure structures provided by the customer. Where secure structures do not exist, mounting poles will be provided by Owner.

3. Communications/Connectivity – Description of required communications

Video Systems - IP

- a. Communication between the IP cameras and the video management storage server shall communicate over the customer's existing network infrastructure.
- b. Network connectivity will be fully owned and managed by Owner.
- c. Local Area Network (LAN) equipment (LAN Switch) will be provided by Owner.
- d. Maintenance on LAN and WAN equipment will be provided by Owner.
- e. Data cabinet and/or shelf space for the network equipment will be provided by Owner.
- f. Power to all installed LAN, WAN and Firewalls will be responsibility of owner.
- g. Uninterrupted Power to the networking equipment will be provided by Owner.
- h. Provisioning of static, public/routable, subnet mask, gateway (IP addresses) for all IP based equipment will be provided by Owner.
- i. Maintenance of the network will be provided by Owner.
- j. All networking cabling will be provided by Owner.
- k. All LAN jacks will be provided by Owner and will be located near all of the IP based equipment to be installed.

SCOPE OF WORK
Cabling, Integration, and Commissioning

1. Cabling – Description of cable infrastructure requirements

- a. Owner to install all cable from control equipment location to device locations. A minimum of 5 feet of extra cable shall be left coiled up at each end of every cable run and will be labeled, tagged or color coded.
- b. Conduit if required for this project and shall be provided by Owner.
- c. Conduit and junction boxes will be supplied and installed by Owner.
- d. Conduit will run from each field device to a junction box above each door in areas that have either drop or open ceilings.
- e. All devices are to be home run to the main control systems.

2. Testing

- a. Intertech Security shall test system components per Intertech Security standard testing procedure.
- b. The customer is required to participate in final testing as part of the punch list / signoff procedure.

3. Training

- a. Intertech Security will not provide any training for this project. However additional training can be purchased by the customer if needed for \$125.00 per hour

4. Documentation Deliverables

- a. Floor plans (as-built)
- b. Risers (as-built)
- c. Panel terminations (as-built)
- d. Manuals

5. Special Considerations

- a. Access to work areas
- b. All work shall be conducted during normal business hours. 8-5PM, Monday through Friday.
- c. Special Training / Intertech Security / Safety Equipment
- d. Lift to be provided by _____. All work areas requiring a lift shall be clear from obstacles prior to installation.
- e. Clean Areas require Hepa tents

6. Customer Responsibilities

- a. Client will be responsible to provide the following information:
 - i. Access Control Door Schedule
 - ii. IP addresses for each controller location
 - iii. DVR/NVR/Camera/Intrusion Panel IP addresses
- b. Client will be responsible for the following hardware and system support
 - i. Network configuration and support
 - ii. Power as required
- c. If required, all fire rated backboards and painting of backboards will be by others.
- d. EXISTING CABLE: If applicable, existing wire and/or cabling which is re-used is assumed to be in satisfactory operating condition, and of equal or better technical specification than required by the manufacturer of installed equipment. Troubleshooting or replacement of sub-standard wire/cabling will be performed by Intertech Security on a time and material basis.
- e. EXISTING DEVICES: If applicable, existing field devices which are re-used are assumed to be in satisfactory operating condition. Troubleshooting and/or repair of existing devices will be performed by Intertech Security on a time and material basis.
- f. Customer is responsible for applying for all required permits.
- g. Backing up the system database is the responsibility of the customer. At the customer's request Intertech Security will provide suggestions for proper backup of the system database.

- h. AC Power for Access Control System should be backed up via generator as the batteries supplied with the system are a temporary source of power.
- i. Client is responsible for providing adequate space for equipment, which might include a recessed enclosure.
- j. Client to provide active phone line for optional monitoring

Client to provide dedicated 120 VAC, network connection(s), network address(es), and firewall rule(s) where required.
Refer to 'Notes and Assumptions' in this proposal for additional considerations to the scope of services provided herein.

SYSTEM COMPONENTS

QTY	Supplier Part Num	Short Description	Product Category (NIGP)	Unit Selling Price	Total Selling Price
Access Control					
4	AL600ULACM	24VDC 6A LOCK POWER SUPPLY/CONTROLLER WITH 8-FUSED OUTPUTS, FIRE DISCONNECT	68002		
4	M8N2	Digitrac 8 door controller	68002		
4	MEB/CB64	Memory Expansion Board - Code 64K - B	68002		
1	AEB8	Alarm Expansion Board - 8 Inputs	68002		
22	MRIB	Match Reader interface board	68002		
22	DTLM2	Digitrac line Modules 2	68002		
19	EXMS	Exit Control Motion Sensor	68002		
22	CR-ICRP40PIV	Card Reader - HID iCLASS/Prox/PIV - WS	68002		
19	HES	ELECTRIC STRIKE 12/24D,630 FINISH ELE STRIKE COMBO, Fail Secure, J Faceplate, FAIL-SECURE	68002		
3	Hirsch	Pedistals	68002		
CCTV					
7	0285-004	M3014 Ultra-discreet fixed dome camera for recessed mounting in drop ceilings. Fixed lens, progressive scan CMOS sensor. Multiple, individually configurable H.264 and Motion JPEG streams; max HDTV 720p or 1MP resolution at 30 fps. Video motion detection. Power over Ethernet, one-port midspan included.	68087		
5	0326-001	P3364-VE 6mm HDTV, day/night, fixed dome with discreet tamper-resistant indoor casing. Varifocal 2.5-6 mm DC-iris lens, remote focus and zoom. Multiple, individually configurable H.264 and Motion JPEG streams; max HDTV 720p or 1MP resolution at 30 fps. WDR. Video motion detection and active tampering alarm. Two-way audio with built-in microphone and audio detection. I/O for alarm/event handling. SD/SDHC memory card slot for optional local video storage. Power over Ethernet. Midspan not included. Includes smoked and clear transparent covers.	68087		

4	0482-001	Q6034-E 720p compliant Outdoor ready, high speed PTZ camera with 18x optical zoom. HDTV 720p @ 30fps (1280x720) in H.264 and Motion JPEG, Day & Night, IP66 and NEMA 4X classification. Arctic Temperature Control enables operation and start up from -40 °C to +50 °C. Active Gate Kepeer and autotracking. Includes Hi PoE midspan, smoked and clear dome. Mounting brackets are not included	68087		
1	0348-001	Q1755-E Outdoor, IP66-rated, 2.0 Megapixel HDTV camera with 10x zoom, auto focus and day/night mode. Complying with SMPTE standards for HDTV 1080i and 720P. 25/30 in all resolutions in H.264 or Motion JPEG. Video motion detection and active tampering alarm. Gatekeeper functionality. Two-way audio. Arctic Temperature Control. Operation in -30 °C to 45 °C (-22 °F to 113 °F) when powered by IEEE 802.3af midspan or down to -40 °C (-40 °F) with AXIS T8123 High PoE Midspan. Includes a removable sunshield, wall bracket and 5-meter Ethernet cable. Midspan not included.	68087		
9	5502-321	AXIS P3343-VE/P3344-VE/P3346-VE Series Pendant Kit	68087		
1	5017-641	T91A64 Corner BracketCorner Bracket for Q6034-E PTZ Dome Network Camera. White. Requires T91A61 Wall Bracket.	68087		
9	5017-611	T91A61 Wall BracketWall Bracket for Q6032-E PTZ Dome Network Camera. Includes mounting plate and wall bracket. White.	68087		
1	GSC-Om-S	Omnicast Standard software which includes: Up to 50 Camera archiver support, 1 Gateway, 5 client/user connections, Maps/Procedures, Audio Support, Web pack, 1 Virtual Matrix, Camera Sequences, 1 Keyboard connection, Alarm Management Module, Time Zone Support, NO Camera Licenses.	92046		
18	GSC-Om-S-1C	1 camera connection	92046		
1	SMA-Base-1Y	SMA with a 1 year term	92045		
18	SMA-CAM-E-1Y	SMA Enterprise Camera - 1 year	92045		
18	Om-E-1FEC	1 Federated camera license	92046		
1	Om-E-1FED	1 Federated directory	92046		

1	SBMS3-2707A	Supervised Balanced Magnetic Switch, LM3	68002		
Ancillary					
2	F66G48WK	6 X 6 X 48" Screw cover wireway	45037		
2	F66G72WK	6 X 6 X 72" Screw cover wireway	45037		
1	Shipping	Shipping			
		TOTAL			